## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

## Listing of Claims:

(Currently Amended) A method for authenticating an electronic payment 1 1. 2 comprising: receiving from a seller an electronic sales draft including an electronic signature, 3 said electronic sales draft being digitally signed using a private key associated with a public key; 4 5 receiving from said seller a digital certificate associated with a buyer, said digital certificate including a first verification key and an encrypted version of a personal identification 6 7 number (PIN), said digital certificate including a binding between at least a portion of said financial account datum and said public key using a second verification key associated with a 8 9 trusted party performing said binding; using said first verification key to verify that said electronic signature was 10 authorized by said buyer; 11 extracting said encrypted version of said PIN from said digital certificate; 12 decrypting said encrypted version of said PIN using said second verification key 13 or a key associated with said second verification key, thereby verifying said first verification key 14 was bound using said second verification key by said trusted party that performed said binding; 15 generating, using said PIN, an authorization request; sending said authorization 16 request to a financial institution; receiving an approval of said authorization request from said 17 financial institution; and sending said approval to said seller. 18 (Currently Amended) A method for authorizing an electronic purchase in a 1 2. 2 networked computer environment, comprising the steps of: receiving, from a merchant, a transaction authorization request including a 3 (a) digital certificate passed through said merchant from a user involved in said transaction, and a 4

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transaction order that was digitally signed by said user using a private key associated with a
public key.
(i) said digital certificate including a financial account datum
associated with said user as well as a said public key of said user,
(ii) said digital certificate also including a binding between at least a
portion of said financial account datum and said public key of said
user using a cryptographic verification key associated with a
trusted party performing said binding;
(b) verifying said binding using a-said cryptographic verification key or a key
associated with said cryptographic verification keyassociated with a trusted party performing
said binding, thereby verifying said public key was bound using said cryptographic verification
key by said trusted party that performed said binding; and
(c) using said financial account datum to authorize a said transaction order
digitally signed by said user with a said private key corresponding to said public key.
3. (Previously Presented) The method of claim 2 where said digital
certificate constitutes said binding.
4. (Previously Presented) The method of claim 2 where said binding is
embedded in said digital certificate.
5. (Previously Presented) The method of claim 2 where said financial
account datum includes a credit card number.
6. (Previously Presented) The method of claim 2 where said financial
account datum includes a debit card number.
7. (Previously Presented) The method of claim 2 where said financial
account datum includes a PIN.

1	8.	(Previously Presented) The method of claim 2 where said financial
2	account datum include	es a card verification value 2.
1	9.	(Previously Presented) The method of claim 2 where said financial
2	account datum include	es checking account information.
1	10.	(Previously Presented) The method of claim 2 where said binding is
2	performed with a sym	metric key shared between said trusted party and a party performing said
3	verification step.	
1	11.	(Currently Amended) The method of claim 2 wherein said key associated
2	with said second verif	ication key comprises an asymmetric key, where said binding is performed
3	with an said asymmet	ric key corresponding to said cryptographic verification key.
1	12.	(Previously Presented) The method of claim 2 where said binding is
2	performed by an issue	er of said digital certificate.
1	. 13.	(Previously Presented) The method of claim 2 where said binding is
2	performed by an issue	er of said financial accounting datum.
1	14.	(Previously Presented) The method of claim 2 where said digital
2	certificate is protected	l with an access code known to said user.
1	15.	(Currently Amended) A method for providing electronic payment
2	capabilities to a user i	n a networked computer environment, comprising the steps of:
3	(a)	obtaining a financial account datum associated with said user;
4	(b)	obtaining a public key associated with said user;
5	(c)	obtaining a cryptographically assured binding of said public key to at least
6	a portion of said finar	icial account datum using a cryptographic verification key associated with a
7	trusted party performi	ng said binding,

8	·	(1) said financial account datum, said public key, and said binding
9		being included in a digital certificate for said user,
10	1 •	(ii) said digital certificate being usable by said user to conduct an
11		electronic transaction involving said financial account datum; and
12	(d)	transmitting said digital certificate to said user, enabling said user to
13	conduct said electron	ic transaction involving (i) a merchant, and (ii) a transaction processor
14	capable of verifying	said binding using a-said cryptographic verification key or a key associated
15	with said cryptograp	nic verification keyassociated with a trusted party performing said binding,
16	thereby verifying said	d public key was bound using said cryptographic verification key by said
17	trusted party that per	formed said binding.
1	16.	(Previously Presented) The method of claim 15 where said digital
2	certificate constitutes	s said binding.
1	17.	(Previously Presented) The method of claim 15 where said binding is
2	embedded in said dig	rital certificate.
1	18.	(Previously Presented) The method of claim 15 where said financial
2	account datum includ	les a credit card number.
1	19.	(Previously Presented) The method of claim 15 where said financial
2	account datum includ	les a debit card number.
1	20.	(Previously Presented) The method of claim 15 where said financial
2	account datum includ	les a PIN.
1	21.	(Previously Presented) The method of claim 15 where said financial
2	account datum includ	les a card verification value 2.
1	22.	(Previously Presented) The method of claim 15 where said financial
2	account datum includ	les checking account information.

1	23. (Previously Presented) The method of claim 15 where said binding is
2	performed with a symmetric key shared between said trusted party and said transaction
3	processor.
1	24. (Currently Amended) The method of claim 15 wherein said key associated
2	with said second verification key comprises an asymmetric key, where said binding is performed
3	with an said asymmetric key corresponding to said cryptographic verification key.
1	25. (Previously Presented) The method of claim 15 where said binding is
2	performed by an issuer of said digital certificate.
1	26. (Previously Presented) The method of claim 15 where said binding is
1	•
2	performed by an issuer of said financial account information.
1	27. (Previously Presented) The method of claim 15 further comprising the
2	step, after step (a), of verifying said financial account datum.
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1	28. (Previously Presented) The method of claim 15 where said digital
2	certificate is protected with an access code known to said user.
1	29. (Previously Presented) The method of claim 15 where said digital
2	certificate is stored at a credential server accessible to said user.
1	30. (Currently Amended) An apparatus for authorizing an electronic purchase
2	in a networked computer environment, comprising:
3	(a) a computer processor;
4	(b) a memory connected to said processor storing a program to control the
5	operation of said processor;
6	(c) the processor operable with said program in said memory to:
7	(i) receive, from a merchant, a transaction authorization request, said
8	request including a digital certificate passed through said merchant

9	•		from	a user involved in said transaction and a transaction order that
10			was d	igitally signed by said user using a private key associated
1	·		with a	public key,
12			(1)	said digital certificate including a financial account datum
13				associated with said user as well as a-said public key of said
ا 4				user,
15			(2)	said digital certificate also including a binding between at
16				least a portion of said financial account datum and a public
17				key of said user using a cryptographic verification key
18				associated with a trusted party performing said binding;
19		(ii)	verify	said binding using a-said cryptographic verification key or a
20			key as	ssociated with said cryptographic verification keyassociated
21	•		with a	trusted party performing said binding, thereby verifying said
22			public	key was bound using said cryptographic verification key by
23			said t	rusted party that performed said binding; and
24		(iii)	use sa	id financial account datum to authorize a transaction order
25			digita	lly signed by said user with a said private key corresponding
26			to said	d public key.
1	31.	(Drove	ovaly, E	resented) The apparatus of claim 30 where said financial
1 2	account datum inclu	•	•	resented) The apparatus of Claim 50 where said infancial
2	account datum meru	ues a F1	IN.	
1	32.	(Previ	ously F	resented) The apparatus of claim 30 where said financial
2	account datum inclu	des a ca	rd verif	ication value 2.
	22	(D)	:1 T	The superstance of slaims 20 values and hinding in
1	33.	` .	•	Presented) The apparatus of claim 30 where said binding is
2	performed with an a	symmet	пс кеу	corresponding to said cryptographic verification key.
1	34.	(Curre	ently A	mended) An apparatus for providing electronic payment
2	capabilities to a user	in a net	worked	computer environment, comprising:

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account datum includes a card verification value 2.

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3	(a)	a proc	essor;	
4	(b)	a men	nory co	nnected to said processor storing a program to control the
5	operation of said pro	ocessor;		
6	(c)	the pr	ocesso	r operable with said program in said memory to:
7		(i)	obtai	n a financial account datum regarding said user,
8		(ii)	obtai	n a public key associated with said user,
9		(iii)	obtai	n a cryptographically assured binding of said public key to at
10			least	a portion of said financial account datum using a
11			<u>crypt</u>	ographic verification key associated with a trusted party
12			perfo	rming said binding,
13	•		(1)	said financial account datum, said public key, and said
14				binding being included in a digital certificate for said user,
15		•	(2)	said digital certificate being usable by said user to conduct
16				an electronic transaction involving said financial account
17				datum, and
18		(iv)	transi	mit said digital certificate to said user, enabling said user to
19			cond	act said electronic transaction involving (1) a merchant, and
20			(2) a	transaction processor capable of verifying said binding using
21			<del>a</del> -saic	Cryptographic verification key or a key associated with said
22			crypt	ographic verification keyassociated with a trusted party
23			perfo	ming said binding, thereby verifying said public key was
24			<u>boun</u>	d using said cryptographic verification key by said trusted
25			party	that performed said binding.
1	35.	(Prev	iously I	Presented) The apparatus of claim 34 where said financial
2	account datum inclu	ides a PI	N.	

(Previously Presented) The apparatus of claim 34 where said financial

1	37. (Previously Presented) The apparatus of claim 34 where said binding is
2	performed with an asymmetric key corresponding to said cryptographic verification key.
1	38. (Currently Amended) A computer-readable storage medium encoded with
2	processing instructions for implementing a method for authorizing an electronic purchase in a
3	networked computer environment, said processing instructions for directing a computer to
4	perform the steps of.
5	(a) receiving, from a merchant, a transaction authorization request, said
6	request including a digital certificate passed through said merchant from a user involved in said
7	transaction and a transaction order that was digitally signed by said user using a private key
8	associated with a public key,
9	(i) said digital certificate including a financial account datum
10	associated with said user as well as a public key of said user,
11	(ii) said digital certificate also including a binding between at least a
12	portion of said financial account datum and a public key of said
13	user using a cryptographic verification key associated with a
14	trusted party performing said binding;
15	(b) verifying said binding using a cryptographic verification key or a key
16	associated with said cryptographic verification key, thereby verifying said public key was bour
17	using said cryptographic verification key by said trusted party that performed said
18	bindingassociated with a trusted party performing said binding; and
19	(c) using said financial account datum to authorize a-said transaction order
20	digitally signed by said user with a said private key corresponding to said public key.
1	39. (Previously Presented) The computer-readable medium of claim 38 when
2	said financial account datum includes a PIN.
1	40. (Previously Presented) The computer-readable medium of claim 38 when
2	said financial account datum includes a card verification value 2.

1	41.	(Previously Presented) The computer-readable medium of claim 38 where			
2	said binding is perfor	aid binding is performed with an asymmetric key corresponding to said cryptographic			
3	verification key.				
1	42.	(Currently Amended) A computer-readable storage medium encoded with			
2	processing instruction	ns for implementing a method for providing electronic payment capabilities			
3	to a user in a network	ted computer environment, said processing instructions for directing a			
4	computer to perform				
5	(a)	obtaining a financial account datum regarding said user;			
6	(b)	obtaining a public key associated with said user;			
7	. (c)	obtaining a cryptographically assured binding of said public key to at least			
8	a portion of said financial account datum using a cryptographic verification key associated with a				
9	trusted party perform	ing said binding,			
10		(i) said financial account datum, said public key, and said binding			
11	ŕ	being included in a digital certificate for said user,			
12		(ii) said digital certificate being usable by said user to conduct an			
13		electronic transaction involving said financial account datum; and			
14	(d)	transmitting said digital certificate to said user, enabling said user to			
15	conduct said electron	ic transaction involving (i) a merchant, and (ii) a transaction processor			
16	capable of verifying	said binding using a-said cryptographic verification key or a key associated			
17	with said cryptograph	nic verification key, thereby verifying said public key was bound using said			
18	cryptographic verific	ation key by said trusted party that performed said bindingassociated with a			
19	trusted party perform	ing said binding.			
1	43.	(Previously Presented) The computer-readable medium of claim 42 where			
2	said financial accoun	t datum includes a PIN.			
1	44.	(Previously Presented) The computer-readable medium of claim 42 where			
2	said financial accoun	t datum includes a card verification value 2.			

1	45.	(Prev	iously Presented) The computer-readable medium of claim 42 where
2	said binding is perfo	rmed w	rith an asymmetric key corresponding to said cryptographic
3	verification key.		
1	46.	(Curr	ently Amended) A digital certificate for use in an electronic payment
2	transaction in a netw	orked o	computer environment, comprising:
3	(a)	a fina	ncial account datum associated with a user as well as a public key
4	associated with said	user;	
5	(b)	a cry	ptographically assured binding of said public key associated with said
6	user to at least a por	tion of s	said financial account datum, said binding having been generated
7	with a cryptographic	verific	ation key associated with a trusted party performing said binding;
8	(c)	said o	ligital certificate configured for use by a transaction processor to:
9	,	(i)	verify said binding using a-said cryptographic verification key or a
10			key associated with said cryptographic verification key, thereby
11			verifying said public key was bound using said cryptographic
12			verification key by said trusted party that performed said
13			bindingassociated with said trusted party, and
14	l	(ii)	access said financial account datum to authorize a transaction order
15			digitally signed with said user's private key corresponding to said
16			public key.
1	47.	(Prev	iously Presented) The digital certificate of claim 46 where said
2	digital certificate con	nstitutes	s said binding.
1	48.	(Prev	iously Presented) The digital certificate of claim 46 where said
2	binding is embedded	l in said	digital certificate.
1	49.	(Prev	iously Presented) The digital certificate of claim 46 where said
2	financial account datum includes a credit card number.		

I	50. (Previously Presented) The digital certificate of claim 46 where said
2	financial account datum includes a debit card number.
1	51. (Previously Presented) The digital certificate of claim 46 where said
2	financial account datum includes a PIN.
1	52. (Previously Presented) The digital certificate of claim 46 where said
2	financial account datum includes a card verification value 2.
1	53. (Previously Presented) The digital certificate of claim 46 where said
2	financial account datum includes checking account information.
1	54. (Previously Presented) The digital certificate of claim 46 where said
2	binding is performed with a symmetric key shared between said trusted party and said
3	transaction processor.
1	55. (Currently Amended) The digital certificate of claim 46 wherein said key
2	associated with said second verification key comprises an asymmetric key, where said binding is
3	performed with an said asymmetric key corresponding to said cryptographic verification key.
1	56. (Previously Presented) The digital certificate of claim 46 where said
2	binding is performed by an issuer of said digital certificate.
1	57. (Previously Presented) The digital certificate of claim 46 where said
2	binding is performed by an issuer of said financial account datum.
1	58. (Previously Presented) The digital certificate of claim 46 where said
2	digital certificate is protected with an access code known to said user.
1	59. (Previously Presented) The method of claim 2 where at least a portion of
2	said financial account datum is kept confidential from said merchant.

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(Previously Presented) The method of claim 15 where at least a portion of 1 60. 2 said financial account datum is kept confidential from said merchant. 61. (Previously Presented) The method of claim 30 where at least a portion of 1 said financial account datum is kept confidential from said merchant. 2 (Previously Presented) The method of claim 34 where at least a portion of 62. 1 said financial account datum is kept confidential from said merchant. 2 63. (Previously Presented) The method of claim 38 where at least a portion of 1 said financial account datum is kept confidential from said merchant. 2 1 64. (Previously Presented) The method of claim 42 where at least a portion of said financial account datum is kept confidential from said merchant. 2 (Previously Presented) The method of claim 46 where at least a portion of 65. 1 said financial account datum is kept confidential from said merchant.